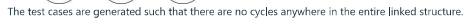


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For example, the following two linked lists begin to intersect at node `c1`:



Note that the linked lists must **retain their original structure** after the function returns.

The inputs to the **judge** are given as follows (your program is **not** given these inputs):

- The judge will then create the linked structure based on these inputs and pass the two heads, `headA` and `headB` to your program. If you correctly return the intersected node, then your solution will be **accepted**.

Input: intersectval = 8, listA = [4,1,8,4,5], listB = [5,6,1,8,4,5], skipA = 2, skipB = 3
Output: Intersected at '8'
Explanation: The intersected node's value is 8 (note that this must not be 0 if the two lists intersect).
 From the head of A, it reads as [4,1,8,4,5]. From the head of B, it reads as [5,6,1,8,4,5].
 There are 2 nodes before the intersected node in A; There are 3 nodes before the intersected node in B.

Input: intersectVal = 2, listA = [1,9,1,2,4], listB = [3,2,4], skipA = 3, skipB = 1
Output: Intersected at '2'
Explanation: The intersected node's value is 2 (note that this must not be 0 if the two lists intersect).
 From the head of A, it reads as [1,9,1,2,4]. From the head of B, it reads as [3,2,4]. There are 3 nodes before the intersected node in A; There are 1 node before the intersected node in B.

Input: intersectVal = 0, listA = [2,6,4], listB = [1,5], skipA = 3, skipB = 2
Output: No Intersection
Explanation: From the head of A, it reads as [2,6,4]. From the head of B, it reads as [1,5]. Since the two lists do not intersect, intersectVal must be 0, while skipA and skipB can be arbitrary values.
Explanation: The two lists do not intersect, so return null.

- The number of nodes of `listA` is in the m .
- The number of nodes of `listB` is in the n .
- $1 \leq m, n \leq 3 \times 10^4$
- $1 \leq \text{Node.val} \leq 10^3$
- $0 \leq \text{skipA} < m$
- $0 \leq \text{skipB} < n$
- `intersect` is `0` if `listA` and `listB` do not intersect.
- `intersect` = `listA[skipA]` = `listB[skipB]` if `listA` and `listB` intersect.

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